

## VARIABLE DATA WIDTH CONVERTER

ABSTRACT

An integrated circuit (IC) with programmable circuitry having programmable functions and programmable interconnections. The IC further includes: a first module having an output with a first fixed data width or first variable data width; a second module having an input with a second fixed data width or a second variable data width; and a data width converter receiving data from the output of the first module and sending the data to the input of the second module, the data width converter configured to convert data from the first fixed data width or first variable data width to the second fixed data width or the second variable data width.